

# Fault Abstract for Cycle starting 6 November 2005

Week	Cycle Category
<b>11/6</b>	Total
0.7	0.7 VUV Downtime
0	0.0 VUV Regulation and Compliance Downtime
3.63	3.6 X-Ray Downtime
0	0.0 X-Ray Regulation and Compliance Downtime
9.5	9.5 Equipment Downtime

X-ray DT	Total	Type of Problem
0.36	0.36	RF Trip
1.92	1.92	X1 Gap Control
1.35	1.35	Power Dip
<u>3.63</u>	<u><b>3.63</b></u>	

VUV DT	Total	Type of Problem
0.27	0.27	RF Trip
0.05	0.05	UV Database Micro
0.40	0.4	Power Dip
<u>0.72</u>	<u><b>0.72</b></u>	

***n.b. All times in hours***

# Faults for week starting 6 November 2005

Wk	Fault #	Date	Time	Group	XRDT	UVDT	EQD	Problem
A	Week of November 6, 2005				3.63	0.72	9.5	
	<a href="#">LS05-0528</a>	11/7/2005	505	Controls/Diagnostics	0	0	0.17	0505: Uv Database micro has failed.
	<a href="#">LS05-0529</a>	11/7/2005	715	VUV RF Group	0	0.27	0.27	0715: Uv beam has dumped.Uv RF has a smoke alarm.UV RF #1 and #2 down.
	<a href="#">LS05-0530</a>	11/7/2005	712	Controls/Diagnostics	1.92	0	1.92	0712: X1 Undulator micro has failed.Reset in progress.
	<a href="#">LS05-0531</a>	11/7/2005	935	Computer Group	0	0	4.25	0935hrs: The ls7301 alternate root disk went down earlier this morning. C.Teng is replacing the alternate root disk. The ls7301 remains up &
	<a href="#">LS05-0532</a>	11/8/2005	32	Computer Group	0	0	0.05	0032: UV database micro went down. SCON and FUSE lamps on CPU board lit, all others off. Address/data LEDs not flashing. -- Reset micro.
	<a href="#">LS05-0533</a>	11/8/2005	1037	Controls/Diagnostics	0	0	0.2	1037hrs: UDBASE micro went down.
	<a href="#">LS05-0534</a>	11/8/2005	1101	Computer Group	0	0	0.2	1101hrs: The x29crue disabled itself at time of UDBASE micro reset.
	<a href="#">LS05-0535</a>	11/9/2005	623	Computer Group	0	0	0.05	0623: UV database micro went down. SCON and FUSE lamps on CPU board lit, all others off. Address/data LEDs not flashing.
	<a href="#">LS05-0536</a>	11/10/2005	126	VUV Power Dip	0	0.4	0.4	0126: Uv beam has dumped.Pwr.dip due to storms dumps Uv beam.UV RF #1 & #2 are down, BUIH also down.All have been reset OK.
	<a href="#">LS05-0537</a>	11/10/2005	126	X-Ray Power Dip	1.35	0	1.35	0126: X-ray beam has dumped . X-ray beam has dumped due to storms.
	<a href="#">LS05-0538</a>	11/11/2005	621	Controls/Diagnostics	0	0	0	0621: Uv Database micro has shut down.
	<a href="#">LS05-0539</a>	11/11/2005	1030	Vacuum Group	0	0	0	1030hrs: The device xrongauge5 appears to have an unstable readback.
	<a href="#">LS05-0540</a>	11/11/2005	1429	X-Ray RF Group	0.18	0	0.18	1429hrs: Xray beam dump - XRF2A 125kW plate supply smoke fault.
	<a href="#">LS05-0541</a>	11/11/2005	1458	X-Ray RF Group	0.18	0	0.18	1458hrs: Xray beam dump - XRF2A/B tuner air/load air fault.
	<a href="#">LS05-0542</a>	11/11/2005	2216	Computer Group	0	0	0.05	2216: UV database micro went down. SCON and FUSE lamps on CPU board lit, all others off. Address/data LEDs not flashing. -- Reset micro
	<a href="#">LS05-0543</a>	11/11/2005	2057	Controls/Diagnostics	0	0	0.12	2057hrs: UDBASE micro failed.
	<a href="#">LS05-0544</a>	11/12/2005	2332	Computer Group	0	0.05	0.1	2332: UV database micro down.

## X-ray Statistics for week starting on 06 November 2005

### ***Operations***

Scheduled operations	168	[hr]
Expected number of scheduled fills	14	
Fills completed as scheduled (start and finish)	10	
Anticipated Fill Budget ( 45 min. per fill )	10.5	[hr]
Anticipated Operating Beam Available	157.5	[hr]
Total fill time during scheduled operations	9.3	[hr]
Delivered beam during scheduled operations	155.1	[hr]
Total beam available (including unscheduled ops)	155.1	[hr]

### ***Disruption Statistics***

Number of disruptions	2	
Total lost operations time	3.6	[hr]
Average time between disruptions	44.8	[hr]

*One 'extra' disruption this week on Sunday with no faults (long injection)*

*Some degraded operation due to CFN construction*

CONCISE STATUS :  
BERMAN METER  
OPERATIONS FOR THE  
WEEK OF  
9 NOVEMBER 2005

✓✓✓ **GOOD**



Three user disruptions  
Some disruption from CFN Construction

## UV Statistics for week starting on 06 November 2005

### ***Operations***

Scheduled operations	162	[hr]
Expected number of scheduled fills	47	
Fills completed as scheduled (start and finish)	46	
Anticipated Fill Budget ( 5 min. per fill )	3.9	[hr]
Anticipated Operating Beam Available	158.1	[hr]
Total fill time during scheduled operations	3.0	[hr]
Delivered beam during scheduled operations	158.3	[hr]
Total beam available (including unscheduled ops)	164.3	[hr]

### ***Disruption Statistics***

Number of disruptions	3	
Total lost operations time	0.7	[hr]
Average time between disruptions	55.8	[hr]

*n.b. One disruption of consequence (power dip) early Friday morning*

CONCISE UV STATUS :

Dan-o-graph  
OPERATIONS FOR  
THE WEEK OF  
30 OCTOBER 2005

✓✓✓✓ **GREAT**

UV disruption time 0.7 hr  
158.3 hours of user beam



Ring	X	U
Schedule	A	A
Sunday	O	O
Monday	O	O/X
Tuesday	T/O	O
Wednesday	O	O
Thursday	O	O
Friday	O	O/S
Saturday	O	O

Fill Metrics	X	U
Week Starting on	A	A
November 6, 2005		
Planned number of User Fills	14	47
Total Number of User Fills	14	47
Fills to scheduled completion	10	46
Disruptions during Operations	2	2
Average Time between Disruptions [hr]	44.8	
Disruptions Requiring Repairs	1	
Average Time to Recover [min]	81	
Average User Fill Time [min]	39.9	

Planned X-ray Hours		
Maintenance	0	
Studies	0	
Operations	168	168
Fill Budget		(10.5)
Planned User Hours	157.5	

**Delivered Operations 155.1**

Actual X-ray Hours		
Maintenance	0	
Studies	0	
Scheduled Op'n	168	168
Unscheduled Op'n	0	0.0
Fills		(9.3)
Maximum User Hours		158.7
Faults		(3.6)
Delivered User Beam		155.1